

Title (en)

4-SUBSTITUTED CYCLOHEXYLAMINE DERIVATIVES, FUNGICIDES CONTAINING THEM AND PROCESS FOR COMBATING FUNGI

Publication

EP 0258853 B1 19900711 (DE)

Application

EP 87112625 A 19870829

Priority

DE 3630344 A 19860905

Abstract (en)

1. A trans-4-substituted cyclohexylamine derivative of the formula see diagramm : EP0258853,P24,F2 where R**1 is the group CR**5 R**6 R**7 , in which R**5 , R**6 and R**7 are identical or different and are each hydrogen, branched or straight-chain, unsubstituted or hydroxyl-substituted C1 -C8 -alkyl, C1 -C6 -alkoxy, C1 -C6 -alkylthio or C3 -C6 -cycloalkyl, with the proviso that not more than one of the substituents R**5 , R**6 and R**7 may be hydrogen, or in which R**5 has one of the above meanings and R**6 and R**7 together with the included carbon atom form a three-membered to six-membered carbocyclic aliphatic ring, R**2 and R**3 are identical or different and are each hydrogen, C1 -C20 -alkyl, C2 -C4 -alkenyl or C3 - or C4 -alkynyl or C3 -C12 -cycloalkyl or C5 -C8 -cycloalkenyl, which in turn may be substituted by hydroxyl, C1 -C8 -alkoxy, C1 -C6 -alkylthio, C1 -C8 -alkyl, C2 -C4 -alkenyl, C3 - or C4 -alkynyl or unsubstituted or substituted C3 -C12 -cycloalkyl or by phenyl, naphthyl, phenoxy or naphthyloxy, which in turn may be unsubstituted or substituted by C1 -C8 -alkyl, C2 -C4 -alkenyl, C3 - or C4 -alkynyl or C3 -C6 -cycloalkyl or C5 -C8 -cycloalkyl, C2 -C8 -alkoxy, halogen or trifluoromethyl, with the proviso that the sum of the carbon atoms and hetero atoms (O, S and halogen) of R**2 and R**3 together is not less than 8, the radicals R**4 are identical or different substituents selected from the group consisting of hydrogen, C1 -C8 -alkyl, C3 -C8 -cycloalkyl and C1 -C8 -alkoxy, and m is 1 to 4, and the ~.~.~. bond is a single or a double bond, or a salt thereof, with the exception of a compound in which at one and the same time R**1 is tert-butyl, one of R**2 and R**3 is hydrogen and the other is unsubstituted C8 -C12 -alkyl, and R**4 is hydrogen.

IPC 1-7

A01N 33/04; A01N 33/08; C07C 211/35; C07C 211/40; C07C 215/02; C07C 215/20; C07C 215/26; C07C 217/00; C07C 217/52

IPC 8 full level

A01N 33/04 (2006.01); **A01N 33/08** (2006.01); **A01N 33/10** (2006.01); **A01N 39/00** (2006.01); **A01N 45/02** (2006.01); **A01N 49/00** (2006.01); **C07C 67/00** (2006.01); **C07C 209/00** (2006.01); **C07C 211/35** (2006.01); **C07C 211/40** (2006.01); **C07C 213/00** (2006.01); **C07C 215/02** (2006.01); **C07C 215/20** (2006.01); **C07C 215/26** (2006.01); **C07C 215/42** (2006.01); **C07C 217/00** (2006.01); **C07C 217/52** (2006.01); **C07C 313/00** (2006.01); **C07C 323/26** (2006.01); **C07C 323/28** (2006.01); **C07C 323/36** (2006.01)

CPC (source: EP US)

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EP 0258853 A1 19880309; EP 0258853 B1 19900711; AT E54443 T1 19900715; AU 604496 B2 19901220; AU 7798687 A 19880310; CA 1296362 C 19920225; CS 268836 B2 19900411; CS 642387 A2 19890814; DD 262162 A5 19881123; DE 3630344 A1 19880317; DE 3763637 D1 19900816; ES 2015932 B3 19900916; GR 3000720 T3 19911010; JP S6368545 A 19880328; NZ 221609 A 19890727; US 5032616 A 19910716; ZA 876610 B 19880525

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